

KAM

INSTRUCTION MANUAL

LED Hexaflower 1 DMX

6 lens LED flower effect with DMX

M A N U A L V E R S I O N 1 . 0

RGB unit that produces stunning flower effects

Multi red, green and blue high power LEDs

6 angled glass lenses for dispersion

Motor controlled moving light beams

Sound-to-Light and DMX modes

9 channel DMX512 operation

No fan due to cool LED operating temperature

Metal chassis and adjustable hanging bracket

Mains fused IEC

For the latest product updates and information on the entire Kam range visit:

www.kam.co.uk

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Kam LED Hexaflower 1 DMX

6 lens LED flower effect with DMX

Thank you for purchasing this product, we hope that it serves you for many years to come.

To optimise the performance of this product, please read these operating instructions carefully to familiarise yourself with the basic operations of this unit.

This unit has been tested at the factory before being shipped to you.

To prevent or reduce the risk of electrical shock or fire, do not expose this unit to high temperature and rain or moisture.

Unpacking

Please unpack your new product carefully, your new product should reach you in perfect condition. Please check that no damage has occurred during transit. If any damage is found, do not operate your unit. Please contact the retailer you purchased it from immediately.

Safety

This unit operates on 240V AC. This appliance must be earthed.

This product is for indoor use only, do not expose to rain or moisture. Always store unit in a dry place.

If there is any damage to the mains cable do not use the device.

Always disconnect the unit from the mains supply when carrying out any servicing or cleaning of the unit.

The unit must not be connected to dimming-packs.

Never look directly into any light source as this may damage eyes.

There are no user serviceable parts in this unit, please consult your retailer for any repair work.

Operation

To prolong the life of your unit it is recommended that the unit is not for constant use. Leaving a break between long periods of use will increase the life span of your unit.

When choosing the installation position, please make sure that the device is not exposed to extreme temperature, moisture, and that no air ways are blocked, keep a good distance from materials etc.

When using smoke machines/foggers, make sure that the device is never exposed to the direct smoke jet and is installed at distance of 0.5 meters away from other surfaces. Always fix the fixture with an appropriate safety-chain. The maximum ambient temperature $T_a = 45^{\circ}\text{C}$ must never be exceeded.

Installation / Overhead rigging

Caution: any units installed in an overhead position may cause severe injuries if not installed correctly or safely. Please ensure the mounting structure is secure and stable, and is capable of holding 10 times the weight of the unit to be installed. Always use suitable hanging/mounting brackets or clamps. Always fit a suitable safety chain.

If in any doubt about installation please contact a qualified technician.

Replacing the fuse

If the fuse of the unit fuses, only replace the fuse by one of the same type and rating.

Before replacing the fuse, unplug mains lead.

Step 1: Open the fuse holder on the rear panel with a screwdriver.

Step 2: Remove the old fuse from the fuse holder.

Step 3: Install the new fuse in the fuse holder.

Step 4: Replace the fuse holder in the housing.

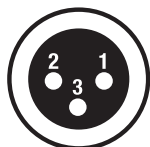
Should you need any spare parts, please use genuine parts.

Should you have further questions, please contact your retailer or local Kam Service Station.

DMX512 connection / connection between units

All DMX cables must be wired correctly, with suitable 2 core screened cable. The signal lines must be separate and no cables should be bridges. Please check this if you are trying to use a microphone cable as these are often balanced leads and will not work for DMX purposes.

DMX output / XLR socket DMX input / XLR plug



1. Ground / 2. Signal (-) / 3. Signal (+)

If you are using a DMX controller with this unit, you can connect the DMX output of the controller directly into the DMX input of the first unit in the DMX chain.

Building a serial DMX chain

Connect the DMX output of the first unit in the DMX chain to the DMX input of the next unit. Always connect one output with the input of the next fixture until all units are connected.

Master/Slave operation

The Master/Slave operation enables several devices to be synchronised and controlled by one master device. On the rear panel of the unit you will find XLR input and XLR output sockets which can be used for linking devices. Choose the device which is to control the effects. This device will work as the Master device and controls all other connected units, these are known as the Slaves. Set all DIP switches to OFF in order to determine the Master device. Set DIP Switches 1 and 10 to ON in order to determine the Slave devices.

Basic operation

After connecting the unit to the mains it will start operating. You can adjust the microphone sensitivity with the rotary control on the rear panel.

Sound-to-Light operation

For sound controlled operation set all DIP Switches to OFF.

DMX operation

You can control the lens colour individually via your DMX controller. Every DMX channel has a different operation with different features. For DMX controlled operation set DIP switch 10 to ON.

DMX addressing

Each unit occupies 9 DMX channels. To ensure that the control signals are properly directed to each unit the unit requires addressing. This has to be adjusted for every single unit by changing the DIP switches as set out in the table below. The starting address is defined as the first channel from which the device will respond to the controller. Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other unit on the DMX data link. If two, three or more devices are addressed similarly, they will work similarly.

DIP switch number	1	2	3	4	5	6	7	8	9
DMX starting address	1	2	4	8	16	32	64	128	256
Unit 1 - channel 1	ON	▲							
	OFF	▼	▼	▼	▼	▼	▼	▼	▼
Unit 2 - channel 10	ON		▲		▲				
	OFF	▼		▼		▼	▼	▼	▼
Unit 3 - channel 19	ON	▲	▲			▲			
	OFF			▼	▼		▼	▼	▼
Unit 4 - channel 28	ON			▲	▲	▲			
	OFF	▼	▼				▼	▼	▼
Unit 5 - channel 37	ON	▲		▲			▲		
	OFF		▼		▼	▼		▼	▼

Channel	DMX value	Description
The first 6 channels correspond to each lens. For example channel 1 controls lens 1, channel 2 controls lens 2 and so on up to channel 6	000 – 010	Off
	011 – 045	Red on
	046 – 080	Green on
	081 – 115	Blue on
	116 – 150	Red and green on
	151 – 185	Red and blue on
	186 – 220	Green and blue on
	221 – 255	Red, green and blue on
Channel 7 - strobe	000 – 010	Off
	011 – 255	Flashes with increasing speed
Channel 8 - Auto mode / progs / mode	000 – 010	Off
	011 – 024	Program 1
	025 – 038	Program 2
	039 – 052	Program 3
	053 – 066	Program 4
	067 – 080	Program 5
	081 – 094	Program 6
	095 – 108	Program 7
	109 – 122	Program 8
	123 – 136	Program 9
	137 – 150	Program 10
	151 – 164	Program 11
	165 – 178	Program 12
	179 – 192	Program 13
	193 – 206	Program 14
	207 – 220	Program 15
	221 – 250	Program 16
	251 – 255	Sound-to-Light mode
Channel 9 - speed in Auto mode	000 – 255	Increasing speed

Technical specifications

Power supply: **230V AC, 50Hz ~**

Power consumption: **20W**

Number of DMX channels: **9**

DMX512 connection: **3 pin XLR**

Sound control: **via built-in microphone**

Maximum ambient temperature Ta: **45°C**

Maximum housing temperature TB (steady state): **50°C**

Minimum distance from flammable surfaces: **0.50m**

Minimum distance to lighted object: **0.10m**

Fuse: **F1A, 250V**

Number of LEDs: **90**

Beam angle: **150°**

Dimensions (LxWxH): **285 x 375 x 165mm**

Weight: **3Kg**

Due to continuous product development, specifications and appearance are subject to change.

If this product is ever no longer functional please take it to a recycling plant for environmentally friendly disposal.